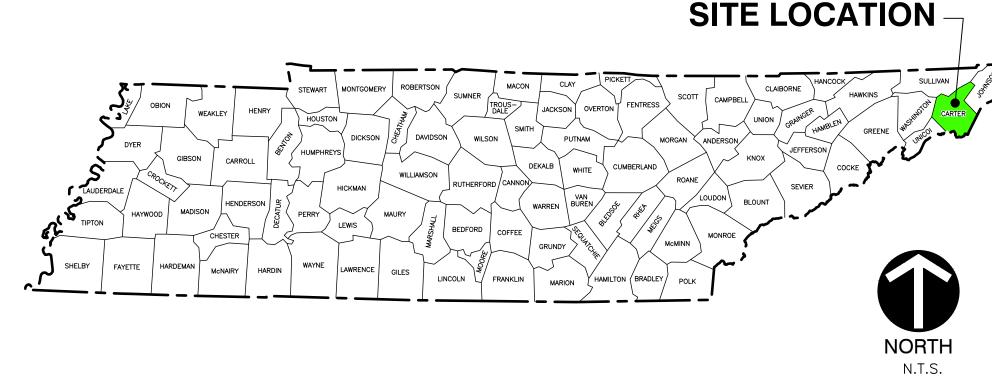
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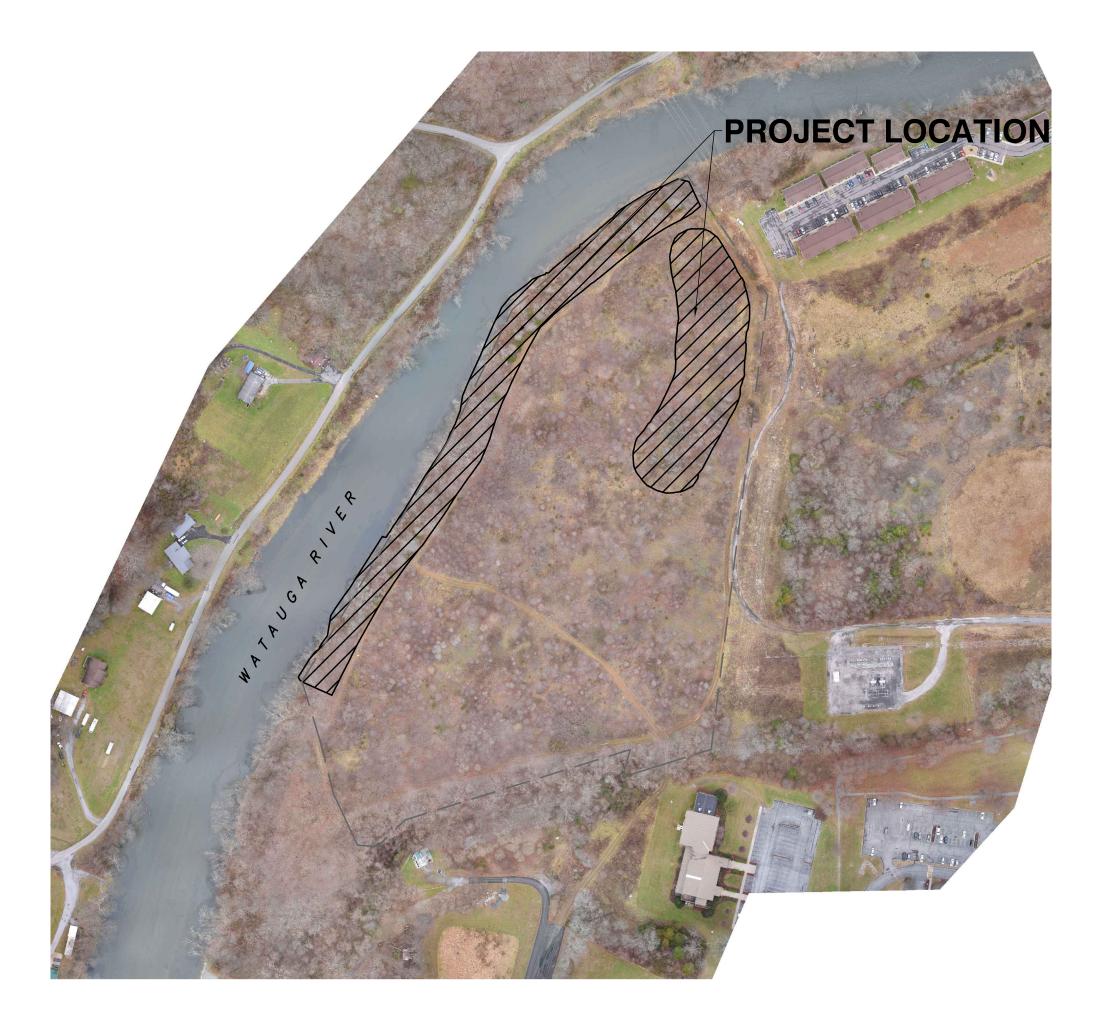
WATAUGA RIVER SLOPE STABILIZATION PLAN CONSTRUCTION DRAWINGS

SYCAMORE SHOALS STATE PARK (FORMER NARC LANDFILL)
ELIZABETHTON, TENNESSEE

MARCH 2023







Sheet List Table					
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C602	DETAILS (3)				
C700	CONSTRUCTION POINTS				
C710	POINT TABLE				

STANDARD DETAIL CALLOUT

DETAIL REFERENCED

SHEET WHERE DETAIL

IS PRESENTED

STANDARD REVISION CALLOUT





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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION

NASHVILLE, TENNESSEE

WN BY: CDS CHECKED BY: CEC APPROVED BY:

COVER

MARCH 2023 DWG SCALE:

C000

N/A PROJECT NO:

ISSUED FOR CONSTRUCTION

DATE: 03/01/23 BY: DW

THE PURPOSE OF THIS PROJECT IS TO (A) STABILIZE THE EASTERN SHORE OF THE WATAUGA RIVER IN THE VICINITY OF THE SYCAMORE SHOALS STATE PARK, AND (B) CREATE AN OBSERVATION AREA AS INDICATED ON THE DRAWINGS USING EXCAVATED MATERIAL. DURING THIS PROJECT, IT IS IMPERATIVE THAT NO SEDIMENT ENTER THE WATAUGA RIVER DURING CONSTRUCTION ACTIVITIES.

GENERAL NOTES

- ANY MODIFICATIONS TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE AND ENGINEER.
- 2. ALL LAND—DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION. FAILURE TO COMPLY WITH THESE REGULATIONS IS SUBJECT TO LEGAL ENFORCEMENT ACTION.
- 3. SITE IS TO BE CONSTRUCTED IN A MANNER THAT REDUCES DISRUPTION TO NEIGHBORING OPERATIONS TO MAXIMUM EXTENT POSSIBLE. TEMPORARY MEASURES REQUIRED TO FACILITATE DAILY OPERATIONS DURING THE CONSTRUCTION PERIOD SHALL BE IMPLEMENTED BY THE CONTRACTOR; UNDER NO CIRCUMSTANCES SHOULD IMPLEMENTATION OF THESE MEASURES JEOPARDIZE THE SAFETY OF NEIGHBORING EMPLOYEES OR THE CONTRACTOR.
- 4. ALL TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH ALL FEDERAL OSHA REGULATIONS. CONTRACTOR TO PAY PARTICULAR ATTENTION TO 29 CFR PART 1926. SUBPARTS M AND P.
- 5. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- 6. CONTRACTOR SHALL REFER TO PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.
- 7. BEFORE INSTALLATION OF UTILITIES, THE CONTRACTOR SHALL VERIFY ALL CROSSINGS, BY EXCAVATION WHERE NECESSARY, AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT HE IS NOT NOTIFIED OF DESIGN CONFLICTS PRIOR TO CONSTRUCTION.
- 8. A GEOTECHNICAL INVESTIGATION FOR THE ENTIRE PROJECT AREA WAS NOT CONDUCTED.

SURVEY NOTES

 SURVEY NOTES ARE DETAILED ON OTHER PLAN SHEETS WITHIN THIS CONSTRUCTION SET.

LAYOUT NOTES

- THE CONTRACTOR SHALL CHECK EXISTING GRADES, DIMENSIONS, AND INVERTS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO BEGINNING WORK
- 2. ALL DAMAGE TO EXISTING PAVEMENT TO REMAIN WHICH RESULTS FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED WITH LIKE MATERIALS AT THE CONTRACTOR'S EXPENSE.
- 3. CONTRACTOR SHALL MAINTAIN ONE SET OF AS—BUILT/RECORD DRAWINGS ON THE JOB SITE DURING CONSTRUCTION FOR DISTRIBUTION TO THE OWNER AND/OR OWNER'S REPRESENTATIVE UPON COMPLETION.

GRADING NOTES

- 1. EARTHWORK SHALL INCLUDE CLEARING AND GRUBBING, STRIPPING AND STOCKPILING TOPSOIL, MASS GRADING, EXCAVATION, FILLING, UNDERCUT AND REPLACEMENT, AND COMPACTION IF REQUIRED.
- 2. CONTRACTOR SHALL STRICTLY ADHERE TO THE CQA PLAN PREPARED FOR THIS PROJECT AND THE EROSION PREVENTION & SEDIMENT CONTROL (EPSC) MEASURES DETAILED IN THESE DRAWINGS.
- 3. EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH TDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION SECTION 203.
- 4. EXCESS SOIL MATERIALS SHALL NOT BE PLACED OR STOCKPILED IN THE
- 5. CONTRACTOR TO REFILL UNDERCUT AREAS WITH SUITABLE MATERIAL AND COMPACT AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 6. ALL AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE EPSC PLANS AND/OR EPSC MEASURES DETAILED IN THESE DRAWINGS, UNLESS NOTED OTHERWISE.
- 7. ALL EXCESS SOIL MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.

UTILITY NOTES

- 1. THE CONTRACTOR IS PARTICULARLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF THE EXISTING UTILITIES SHOWN HEREON IS BASED ON TOPOGRAPHIC SURVEYS AND RECORD DRAWINGS. THE CONTRACTOR SHALL NOT RELY UPON THIS INFORMATION AS BEING EXACT OR COMPLETE. SHOULD UNCHARTED UTILITIES BE ENCOUNTERED DURING EXCAVATION OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SOON AS POSSIBLE FOR INSTRUCTIONS. THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION AND REQUEST FIELD VERIFICATION OF UTILITY LOCATIONS.
- 2. SHOULD THE CONTRACTOR UNEXPECTEDLY ENCOUNTER UNDERGROUND UTILITIES AT ANY TIME DURING CONSTRUCTION, THE OWNER'S REPRESENTATIVE AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 3. EXISTING UTILITIES LOCATED IN THE PROJECT LIMITS TO BE RELOCATED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR UTILITY RELOCATION.
- 4. INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION FOR ALL UTILITY LINES SO THAT WATER LINES, GAS LINES, AND UNDERGROUND ELECTRIC AND COMMUNICATION LINES DO NOT CONFLICT WITH SANITARY SEWERS OR STORM SEWERS. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE SO THAT UTILITIES ARE INSTALLED PRIOR TO PAVEMENT CONSTRUCTION.
- 6. ALL TRENCH SPOILS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED AND SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF OFFSITE AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION PREVENTION AND SEDIMENT CONTROL PROVISIONS AS SET FORTH IN THE CONTRACT DOCUMENTS AND TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION "EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION. WHERE CONFLICTS EXIST BETWEEN HANDBOOK AND DESIGN PLANS, THE MOST STRINGENT REQUIREMENT
- 2. CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC TO INSIDE LIMITS OF DISTURBANCE AT ALL TIMES.
- 3. TEMPORARY STABILIZATION SHALL BE PROVIDED TO ALL DISTURBED AREAS WITHIN 14 DAYS OF CEASING LAND DISTURBANCE ACTIVITIES.
- 4. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 14 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.
- 5. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 6. ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES OVER TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ON ALL PROJECTS. SURFACE ROUGHENING SHALL BE PERFORMED ON ALL DISTURBED RIPARIAN AREAS.
- 7. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED CONCURRENTLY WITH CLEARING OPERATIONS, AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- 8. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTION, REPAIR, AND MAINTENANCE OF STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS AND SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN
- 9. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
- 10. SEEDING/MULCHING TO BE PERFORMED IN ACCORDANCE WITH THE TDOT STANDARDS SPECIFICATION FOR ROAD & BRIDGE CONSTRUCTION SECTION 801.
- 11. WOODEN STAKES USED TO ANCHOR THE ECM SHALL NOT EXTEND MORE THAN 1/2" ABOVE GRADE.
- 12. WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL—VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.
- 13. CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE WATER FLOW VELOCITY AND PROVIDE EROSION CONTROL.
- 14. INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE DONE ACCORDING TO THE TENNESSEE CONSTRUCTION GENERAL PERMIT.
- 15. UPON CONCLUSION OF THE INSPECTIONS, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.
- 16. THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S. IS PROHIBITED, EXCEPT AS NEEDED TO PERFORM STREAM RESTORATION WORK AS DIRECTED BY THE ENGINEER.
- 17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S.
- 18. THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- 19. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN IN ACCORDANCE WITH THE SPECIFICATIONS.



REVISION RECORD

DESCRIPTION

DATE



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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION

NASHVILLE, TENNESSEE

RAWN BY: CDS CHECKED BY:

CDS CHECKED BY: CEC APPROVED BY:

MARCH 2023 DWG SCALE: N/A PROJECT NO:

GENERAL NOTES

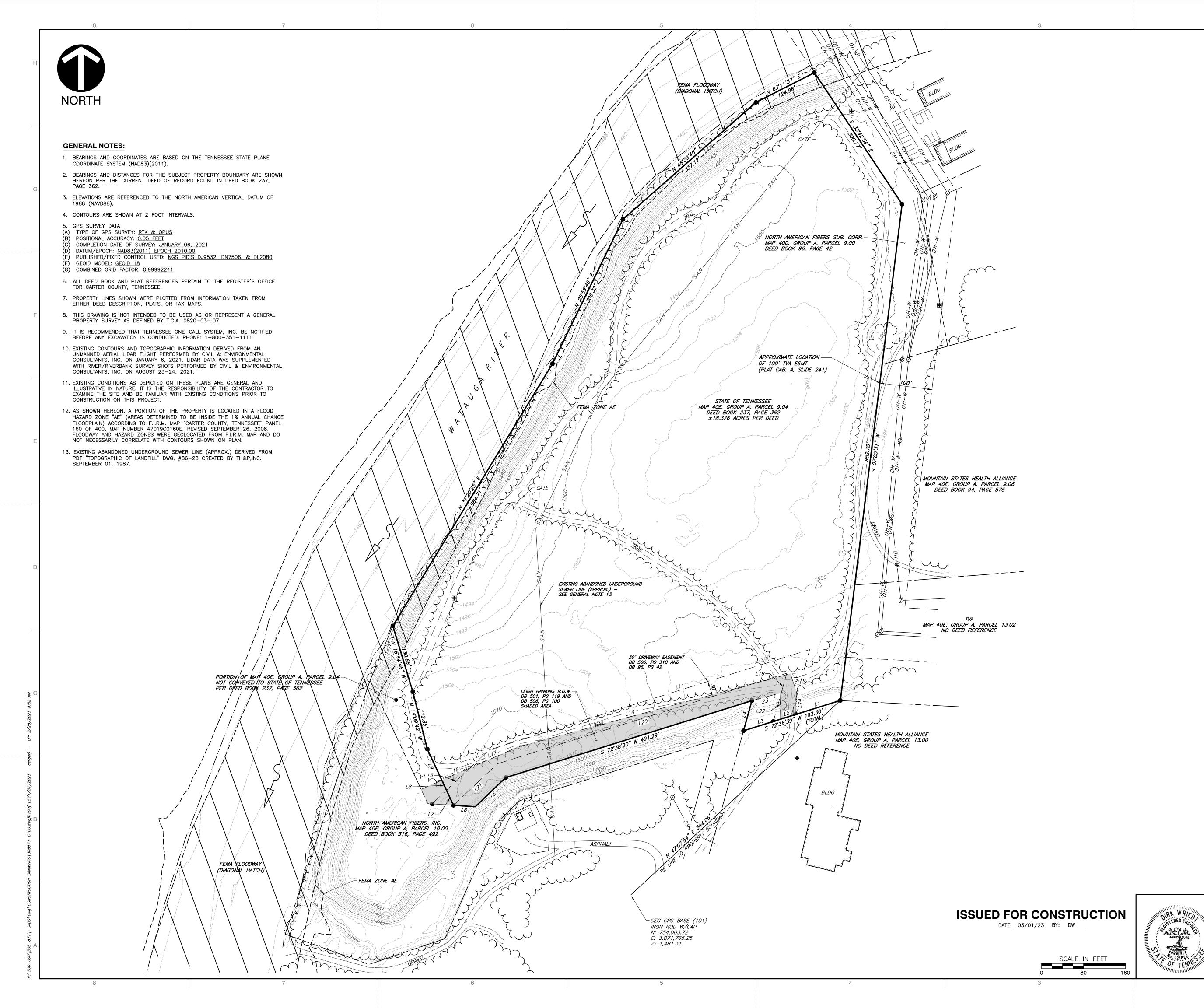
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305-87

ISSUED FOR CONSTRUCTION

DATE: <u>03/01/23</u> BY: <u>DW</u>





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	Line To	able
Line #	Length	Direction
L1	88.94	S72°36′39″V
L2	31.71	572°36′39″V
L3	72.65	S72°36′39″V
L4	59.58	N15°33'59"E
L5	80.13	S46°12'47"V
L6	41.65	N86°11'13"V
L7	31.62	N24°59'51"V
L8	20.97	N24°59'51"V
L9	65.61	N24°59'51"V
L10	131.06	N15°34'04"E
L11	639.70	S72°37′14″V
L12	49.85	S46°35'05"V
L13	61.98	S46°35'05"V
L19	95.32	N15°34'04"E
L20	577.57	S72°37′14″V
L21	114.87	S46°35'05"V
L14	43.11	NO1°33'38"E
L15	36.27	N18°32'51"V
L16	537.67	S74°57'07"V
L17	98.98	S66°21'04"V
L18	58.82	S66°21'04"V
L22	50.41	NO1°33'38"E
L23	56.66	S74°57'07"V

EXISTING PROPERTY LINE

EXISTING ADJACENT PROPERTY LINE

EXISTING EASEMENT

EXISTING RIGHT—OF—WAY

EXISTING INDEX CONTOUR

EXISTING INTERMEDIATE CONTOUR

EDGE OF WATER (AS OF AUGUST 23—24, 2021)

EXISTING OVERHEAD WIRE

EXISTING FENCE

EXISTING TREELINE

IRON PIN FOUND

AERIAL CONTROL POINT

GPS STATION

UTILITY POLE

GUY WIRE

LEGEND:





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BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION
NASHVILLE. TENNESSEE

NASHVILLE, TENNESSEE

Y: CDS CHECKED BY: CEC APPROVED BY:

MARCH 2023 DWG SCALE: 1"=80' PROJECT NO:

EXISTING CONDITIONS

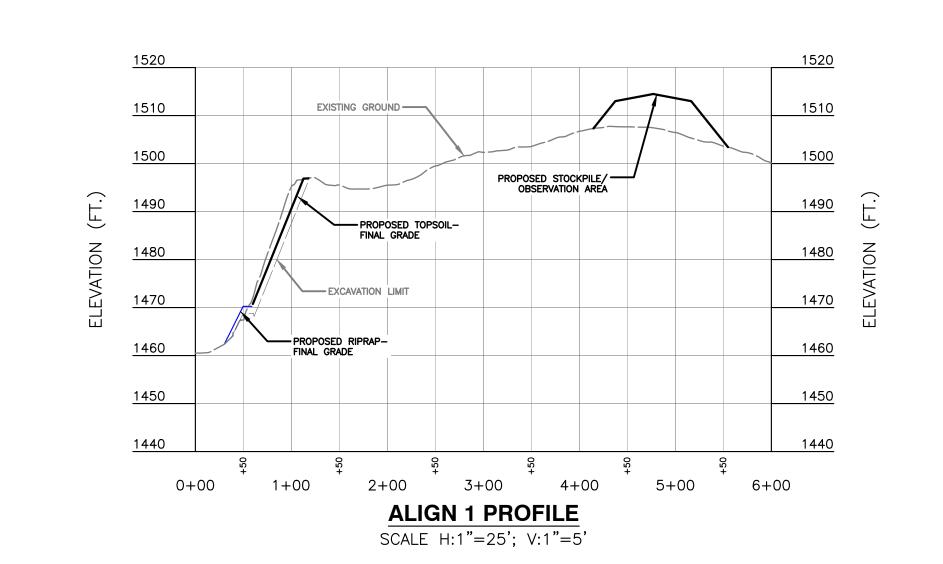
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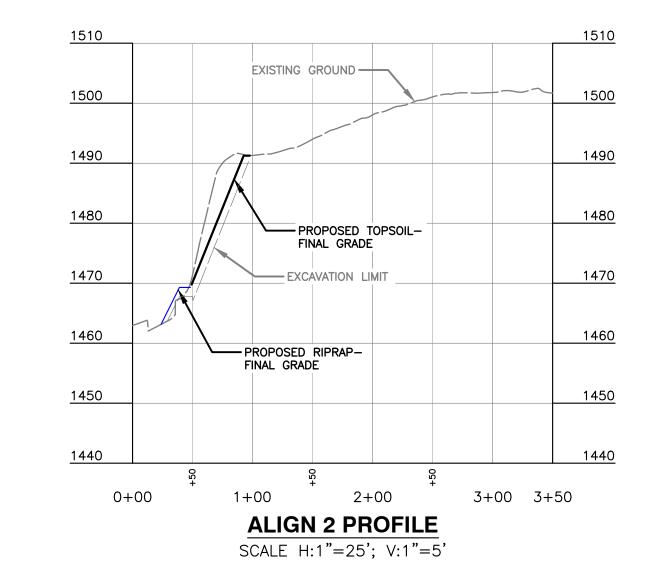
305-871



Line Table						
Line #	Length	Direction				
L 1	88.94	S72°36′39″W				
L2	31.71	S72°36'39"W				
L3	72.65	S72°36'39"W				
L4	59.58	N15°33′59″E				
L5	80.13	S46°12'47"W				
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L22	50.41	N01°33′38″E				
123	56.66	S74°57'07"W				

REVISION RECORD LEGEND: DESCRIPTION EXISTING PROPERTY LINE ----- EXISTING ADJACENT PROPERTY LINE — — — EXISTING EASEMENT -----1500---- EXISTING INDEX CONTOUR ---- EXISTING INTERMEDIATE CONTOUR





OIRK WRIED





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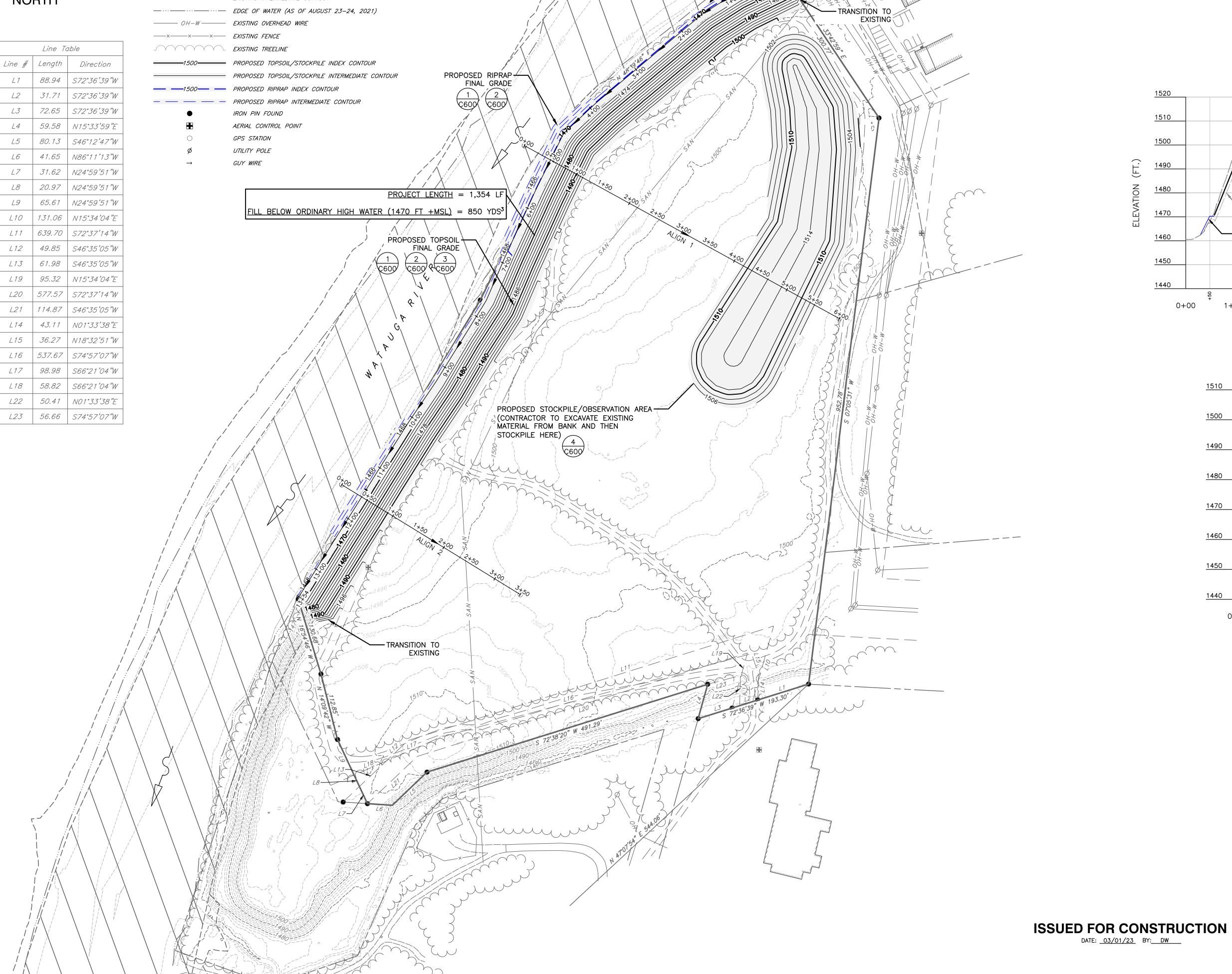
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION

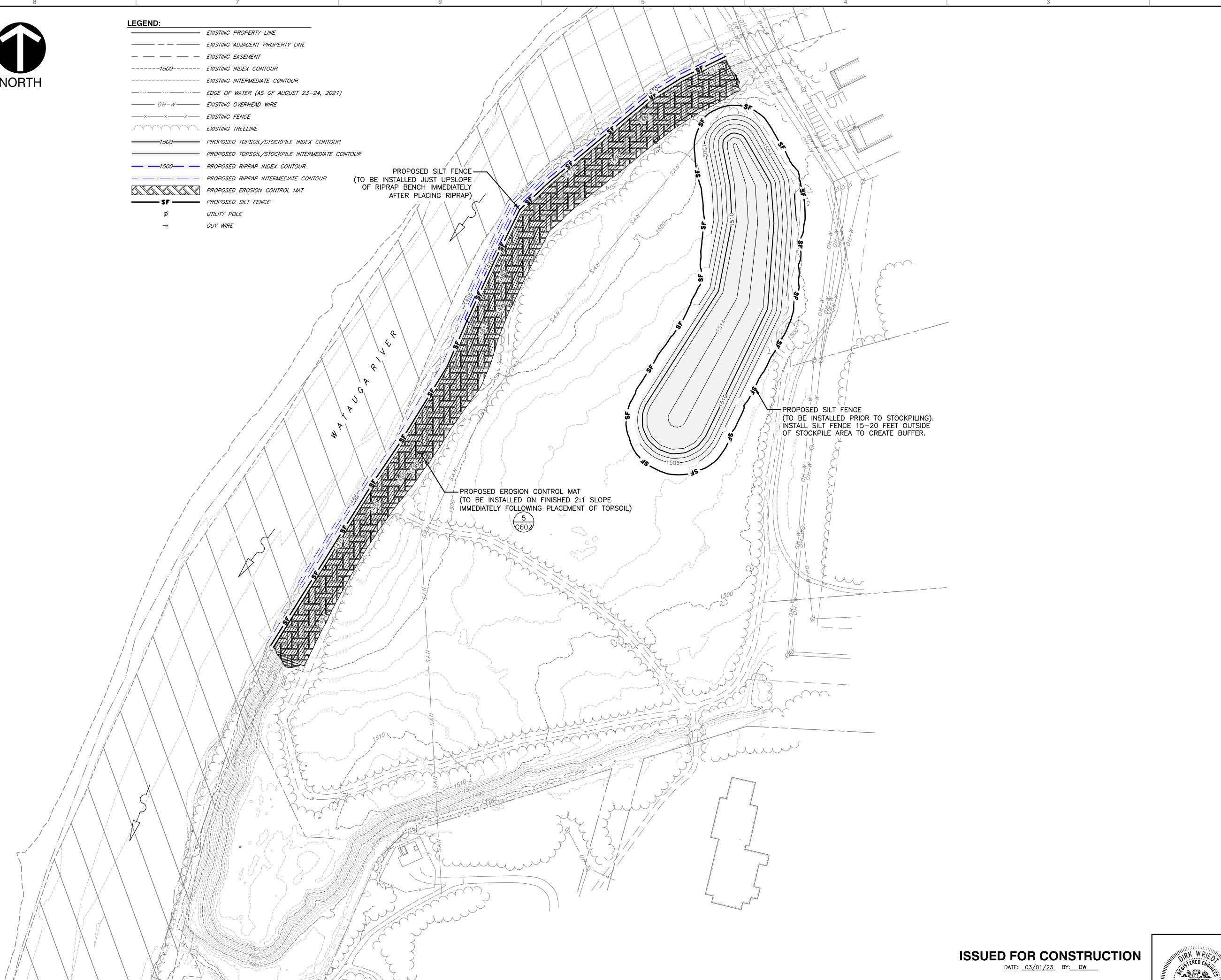
NASHVILLE, TENNESSEE

CEC APPROVED BY: CDS CHECKED BY: 1"=80' PROJECT NO: MARCH 2023 DWG SCALE: 305-871

PROPOSED GRADING

DRAWING NO.: C300





REVISION RECORD DESCRIPTION





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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION

NASHVILLE, TENNESSEE CDS CHECKED BY: CEC APPROVED BY:

EPSC PLAN

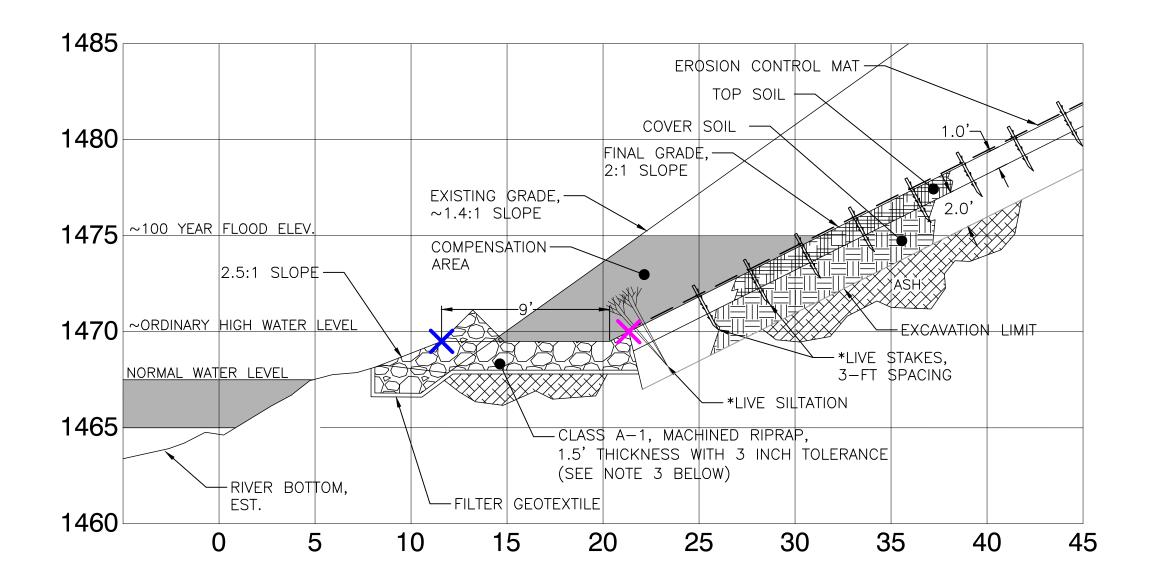
MARCH 2023 DWG SCALE:

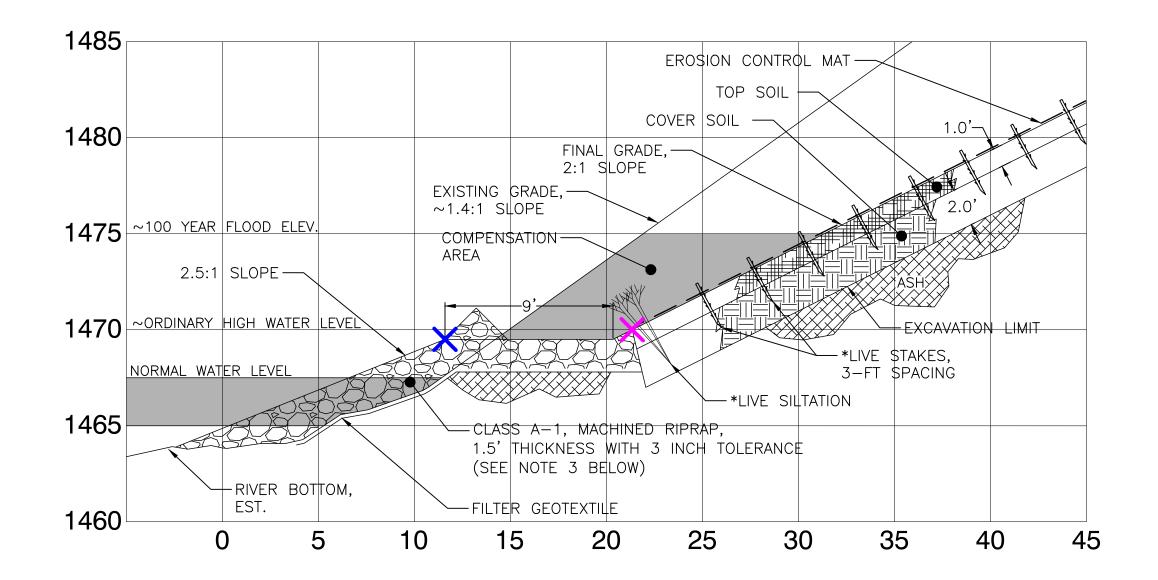
DRAWING NO.: C301

305-871

1"=80' PROJECT NO:







TYPICAL LONGITUDINAL STONE TOE - WITHOUT KEY

REVISION RECORD NO DATE DESCRIPTION

NORTH END OF SITE = $\frac{100-YR \text{ FLOOD ELEVATION}}{1477 \text{ FT +MSL (APPROX)}}$ SOUTH END OF SITE = 1473 FT +MSL (APPROX)

> ORDINARY HIGH WATER LEVEL 1470 FT +MSL (APPROX)

> > NORMAL WATER LEVEL 1467 FT +MSL (APPROX)

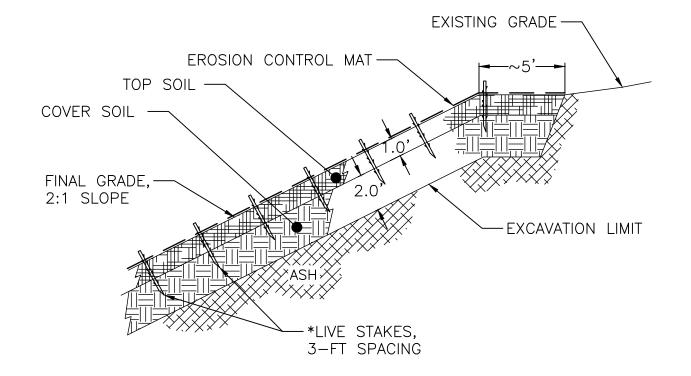
NORTH END OF SITE= 1460 FT +MSL (APPROX) SOUTH END OF SITE =1457 FT +MSL (APPROX)

TYPICAL LONGITUDINAL STONE TOE - WITH KEY N.T.S.

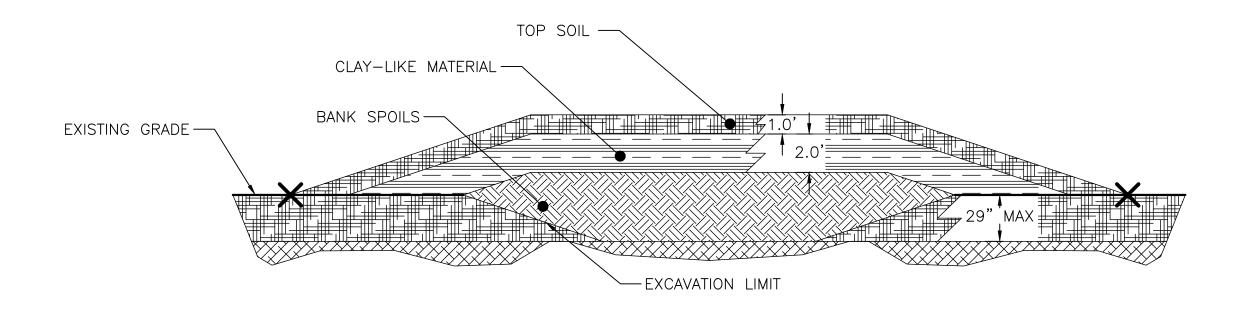
> *LIVE SILTATION/ STAKES LIVE SILTATION (MIN. 25 BRANCHES
> OF LIVE CUTTINGS OF MIXED SPECIES FIRST ROW PER THREE (3) LINEAR FEET) REST OF BANK LIVE STAKES

- 1. KEY IN RIPRAP WHERE RIPRAP TOE IS ABOVE WATER LEVEL AT TIME OF EXCAVATION.
- 2. PLACE GEOTEXTILE AND RIPRAP ON THE SAME DAY AS EXCAVATION.
- 3. MACHINED RR, CLASS A-1, SEC. 709-02, 709-03-3a

CONSTRUCTION POINT - TOE OF RIPRAP CONSTRUCTION POINT - TOE OF SLOPE CONSTRUCTION POINT - TOE OF STOCKPILE



TOP OF EXCAVATION SLOPE TIE-IN TO EXISTING GRADE N.T.S.



STOCKPILE/OBSERVATION AREA N.T.S.





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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION **BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION**

NASHVILLE, TENNESSEE

CDS CHECKED BY:

MARCH 2023 DWG SCALE: **DETAILS**

DRAWING NO.: C600

305-871

CEC APPROVED BY: N.T.S. PROJECT NO:

ISSUED FOR CONSTRUCTION

DATE: <u>03/01/23</u> BY: <u>DW</u>

OIRK WRIED

TEMPORARY SEEDING CONSTRUCTION SPECIFICATIONS

GRADING AND SHAPING:

Excessive water runoff shall be reduced by properly designed and installed erosion control practices such as ditches, dikes, diversions, and sediment basins. No shaping or grading is required if slopes can be stabilized by hand—seeded vegetation or if hydraulic seeding equipment is to be used.

SEEDBED PREPARATION:

Good seedbed preparation is essential to successful plant establishment. A good seedbed is well pulverized, loose and uniform. Where hydroseeding methods are used, the surface may be left with a more irregular surface of large clods and

Apply lime according to soil test recommendations. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher do not need to be limed.

Base application rates on soil tests. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before the application.

SURFACE ROUGHENING:

If recent tillage operations have resulted in a loose surface, additional roughening may not be necessary, except to break up large clods. If rainfall caused the surface to become sealed or crusted, loosen it just prior to seeding by disking, raking, harrowing, or other suitable methods.

Select a non-invasive grass or grass-legume mixture suitable to the area and season of the year. See Figures for suggestions of temporary seeding species. Seed shall be applied uniformly by hand, cyclone seeder, drill, cultipacker seeder, or hydraulic seeder. Drill or cultipacker seeders should normally place seed ¼ to ½ inches deep. Appropriate depth of planting is 10 times the seed diameter. Soil should be raked lightly to cover seed with soil if seeded by hand.

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will ensure germination of the seed. Subsequent applications should be made as needed. Newly seeded areas require more water than more mature plants.

PERMANENT SEEDING CONSTRUCTION SPECIFICATIONS

GRADING AND SHAPING:

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, grade and shape the slope, where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching, and maintenance of vegetation.

Concentrations of water that could cause excessive soil erosion should be diverted to a safe outlet. Diversions and other treatment practices must conform to the appropriate standards and specifications.

Only certified seed shall be used. Refer to Table for suggested species.

SEEDBED PREPARATION:

When conventional seeding is to be used, topsoil should be applied to any area where the disturbance results in subsoil at the final grade surface. A minimum depth of 12" is required. Soil pH should be above 5 - preferably between 6.0 and 6.5. Soil on the site should be tested to determine lime and fertilizer rates. Soil should be submitted to a soils specialist or County Agricultural Extension agent for testing and soil amendment recommendations.

	REVISION RECORD					
NO	DATE	DESCRIPTION				
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PERMANENT SEEDING CONSTRUCTION SPECIFICATIONS (CONT'D)

Broadcast Seeding:

• Seedbed preparation may not be required where hydraulic seeding equipment is to be used.

• Tillage, at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate topsoil, lime, and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a crimper is to be used.

Tillage may be done with any suitable equipment.

• Tillage should be done parallel to the contour where feasible.

No—till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no—till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Any areas that have washed out due to high stormwater flows, areas that have been disturbed by blowing wind, and areas that do not show good germination should be retreated.

Inspect seeded areas for failure and make necessary repairs and reseedings within the same season, if possible.

If a stand has inadequate cover, re—evaluate choice of plant materials and quantities of lime and fertilizer in cooperation with the owner. Re-establish the stand after seedbed preparation or over-seed the stand. Consider seeding temporary, annual species if the time of year is not appropriate for permanent seeding

TEMPORARY COVER SEEDING MIXTURES							
SEEDING DATES	GRASS SEED	SOIL AMENDMENTS	MAINTENANCE				
JANUARY 1 TO MAY 1	RYE (120 LBS/ACRE)	FOLLOW RECOMMENDATIONS	REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND				
	OATS (60 LBS/ACRE)	OF SOIL TESTS.	MULCH IMMEDIATELY FOLLOWING EROSION OR				
MAY 1 TO AUGUST 15	BROWN TOP MILLET (30 LBS/ACRE)		OTHER DAMAGE.				
ALICUST 15 DECEMBED 31	OATS (30 LBS/ACRE)						
AUGUST 15 — DECEMBER 31	WINTER WHEAT (30 LBS/ACRE)						

PERMANENT COVER SEEDING MIXTURES							
TYPE PREFERRED RATE/MIX (lb/ac PLS)							
ROUNDSTONE NATIVE SEED, LLC MIX 168 — SOUTHERN RIPARIAN BUFFER MIX OR EQUIVALENT	REFER TO ROUNDSTONE SPECIFICATION						

CONSTRUCTION SPECIFICATIONS FOR LIVE SILTATION/STAKES

- HARVESTING:
- A. LIVE SILTATION/STAKES MUST CONSIST OF A COMBINATION OF SPECIES LISTED IN THE PLANT SCHEDULE ON THIS SHEET. FIRST ROW (LIVE SILTATION) TO BE A FASCINE OF 25 BRANCHES (MINIMUM) PER THREE (3) LINEAR FEET.
- B. STAKES SHOULD BE HARVESTED AND PLANTED WHEN THE WILLOWS OR OTHER CHOSEN SPECIES ARE DORMANT. THIS PERIOD IS GENERALLY FROM LATE FALL TO EARLY SPRING, OR BEFORE THE BUDS START TO BREAK.
- C. WHEN HARVESTING CUTTINGS, SELECT HEALTHY, LIVE WOOD THAT IS REASONABLY STRAIGHT.
- D. USE LIVE WOOD AT LEAST 1 YEAR OLD OR OLDER. THE BEST WOOD IS 2 TO 5 YEARS OLD WITH SMOOTH BARK THAT IS NOT DEEPLY FURROWED.
- POSSIBLE. CUT THE BUTT END OF THE CUTTING AT AN ANGLE (~45 DEGREES) AND THE TOP END PERPENDICULAR (90 DEGREES) F. THE TOP (SQUARE CUT END) SHOULD BE PAINTED AND SEALED BY DIPPING THE TOP

E. MAKE CLEAN CUTS WITH UNSPLIT ENDS. TRIM BRANCHES FROM CUTTING AS CLOSE AS

1-INCH TO 2-INCHES INTO A 50-50 MIX OF LIGHT COLORED LATEX PAINT AND WATER. ASSSURE THE STAKES ARE PLANTED WITH THE TOP UP. G. CUTTINGS SHOULD GENERALLY BE BETWEEN 0.75-INCHES TO 2-INCHES IN DIAMETER BUT CAN

H. CUTTINGS OF SMALL DIAMETER (UP TO 1.5-INCHES) SHOULD BE 18 INCHES LONG MINIMUM.

- BE LARGER DEPENDING ON THE SPECIES. LARGER DIAMETER CUTTINGS ARE NEEDED FOR PLANTING INTO ROCK RIPRAP.
- THICKER CUTTINGS SHOULD BE LONGER. I. STAKES SHOULD BE CUT SO A TERMINAL BUD SCAR IS WITHIN 1-INCH TO 4-INCHES OF THE TOP. AT LEAST TWO BUDS AND/OR BUD SCARS SHOULD BE ABOVE THE GROUND AFTER
- J. SPECIES SELECTION/COMPOSITON SUBJECT TO LOCAL NURSERY AVAILABILITY AT TIME OF

2. INSTALLATION:

PLANTING.

- A. STAKES MUST BE PLANTED WITH BUTT-ENDS INTO THE GROUND. LEAF BUD SCARS OR EMERGING BUDS SHOULD ALWAYS POINT UP. LIVE BRANCH CUTTINGS SHALL BE PLACED WITH BASAL ENDS
- B. USE AN IRON STAKE OR BAR TO MAKE A PILOT HOLE IN FIRM SOIL OR BETWEEN RIPRAP. DRIVE LIVE STAKES INTO THE SOIL WITH A RUBBER MALLET OR DEAD-BLOW HAMMER.
- C. STAKES/SILTATION MUST NOT BE ALLOWED TO DRY OUT. THE CUTTINGS NOT PLANTED THE DAY THEY ARE HARVESTED SHOULD BE SOAKED IN WATER FOR A MINIMUM OF 24 HOURS.
- D. SET THE STAKE AS DEEP AS POSSIBLE INTO THE SOIL, PREFERABLY WITH 80 PERCENT OF ITS LENGTH BURIED BUT NO LESS THAN ONE-HALF OF THE TOTAL LENGTH BURIED. E. TAMP THE SOIL AROUND THE CUTTING.
- F. FOR LIVE SILTATION ENOUGH BRANCHES SHALL BE USED TO FORM A CONTINUOUS LINEAR BRANCH WALL PARALLEL TO THE STREAM. GAPS SHOULD BE MINIMIZED.

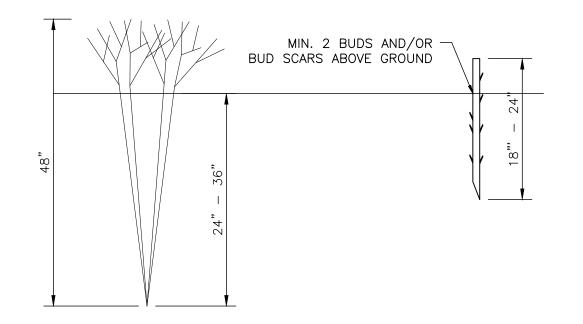
SEEDING SPECIFICATIONS

LIVE SILTATION/STAKES PLANT SCHEDULE

BOTANICAL NAME PLATANUS OCCIDENTAILIS CORNUS AMOMUM SALIX NIGRA SAMBUCUS CANADENSIS VIBURNUM DENTATUM

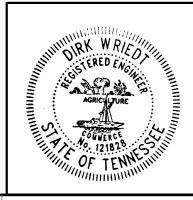
AMERICAN SYCAMORE SILKY DOGWOOD BLACK WILLOW ELDERBERRY ARROWOOD

COMMON NAME



ISSUED FOR CONSTRUCTION

DATE: <u>03/01/23</u> BY: <u>DW</u>





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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION **BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION**

NASHVILLE, TENNESSEE

MARCH 2023 DWG SCALE: N.T.S. PROJECT NO:

DETAILS (2)

CDS CHECKED BY:

DRAWING NO.: C601

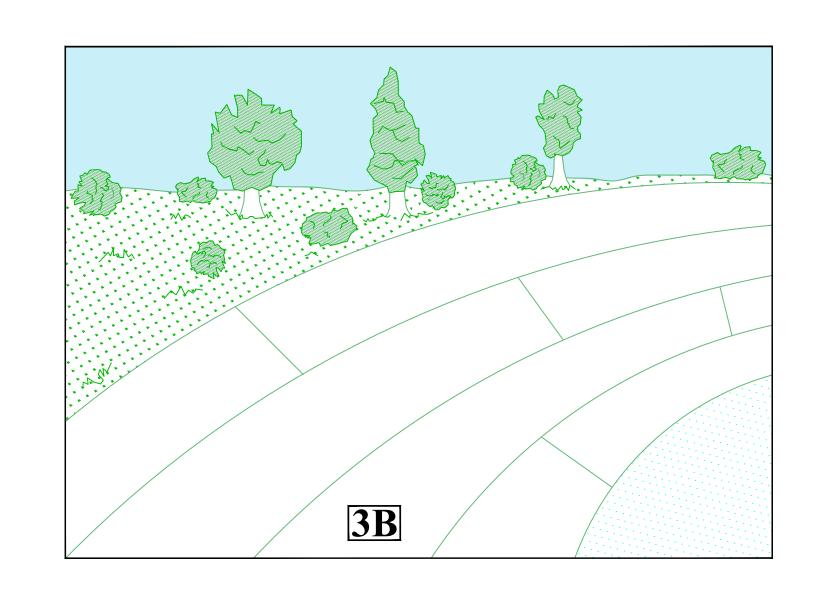
305-87

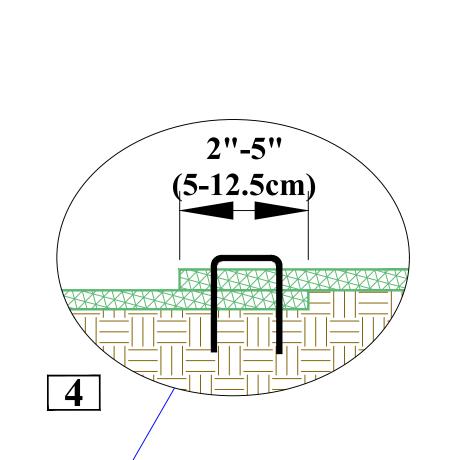
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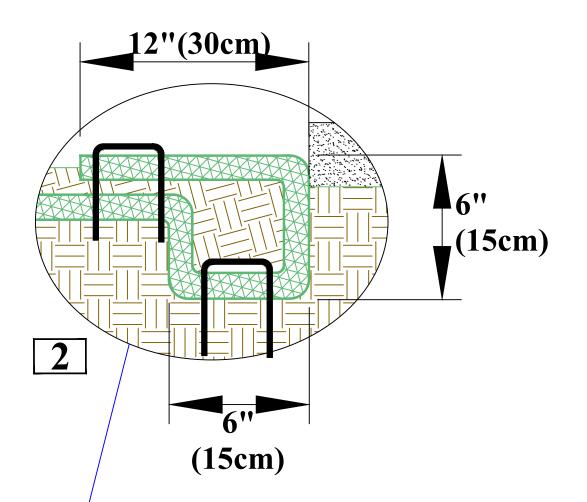
LIVE SILTATION/STAKES SPECIFICATIONS

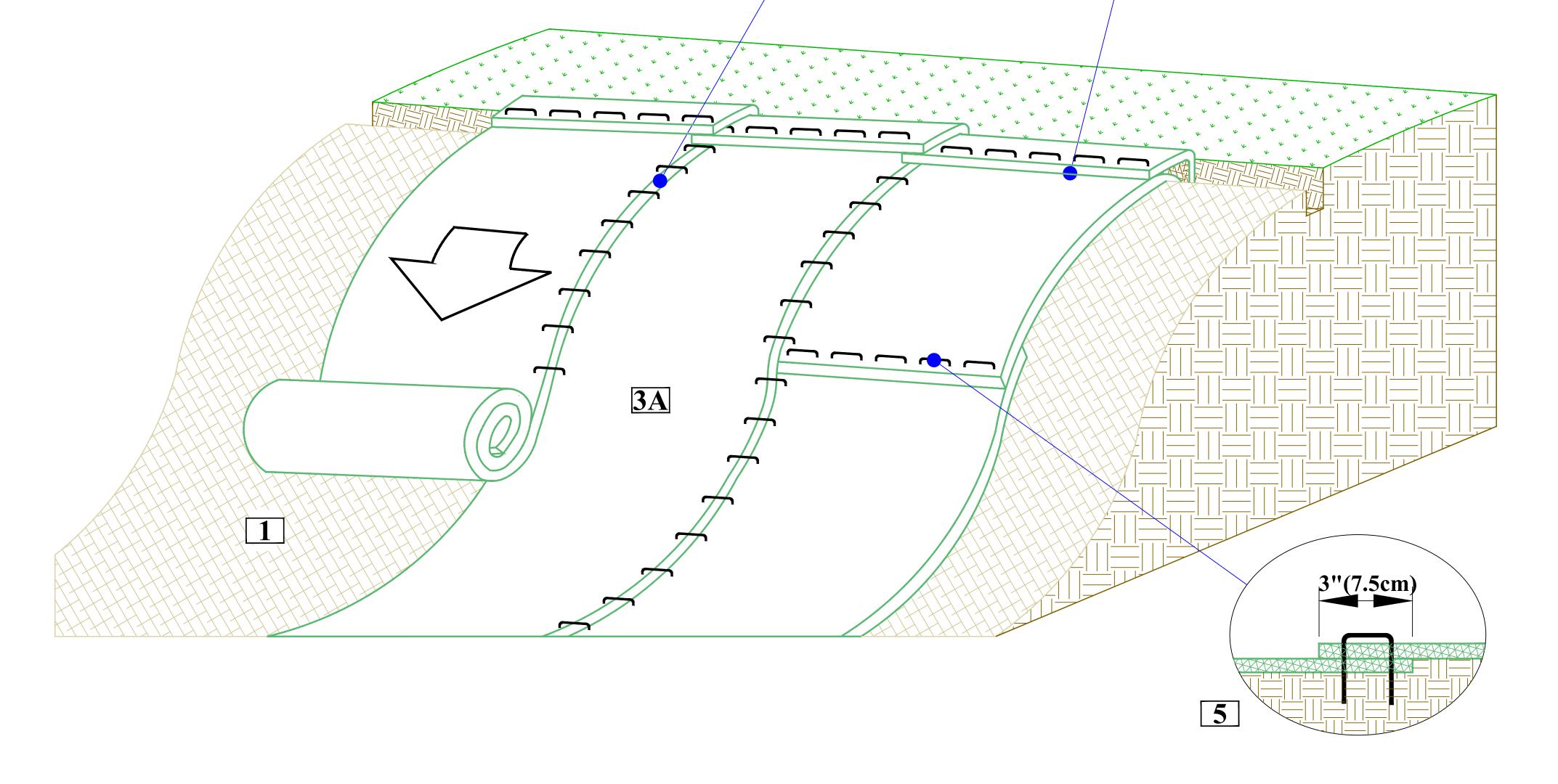
N.T.S.

		REVISION RECORD
NO	DATE	DESCRIPTION
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SLOPE INSTALLATION DETAIL

- 1. Begin at the top of the slope by anchoring the ECM in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of ECM extended beyond the up-slope portion of the trench. Anchor the ECM with a row of staples/stakes approximately 12" (30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Fold the remaining 12"(30cm) portion of ECM back over the compacted soil. Secure ECM over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the ECM.
- 2. Roll the ECM (A) down or (B) horizontally across the slope. ECM will unroll with appropriate side against the soil surface. All ECMs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- 3. The edges of parallel ECMs must be stapled with approximately 2" - 5" (5-12.5cm) overlap depending on the ECM type.
- 4. Consecutive ECMs spliced down the slope must be end over end (Shingle style) with an approximate 3"(7.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire ECM width.
- 5. Apply live stakes to the bank per instructions on Drawing C601.

*NOTE:

In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the ECM.



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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION NASHVILLE, TENNESSEE

CEC APPROVED BY: CDS CHECKED BY: N.T.S. PROJECT NO: MARCH 2023 DWG SCALE:

DETAILS (3)

DRAWING NO.: C602

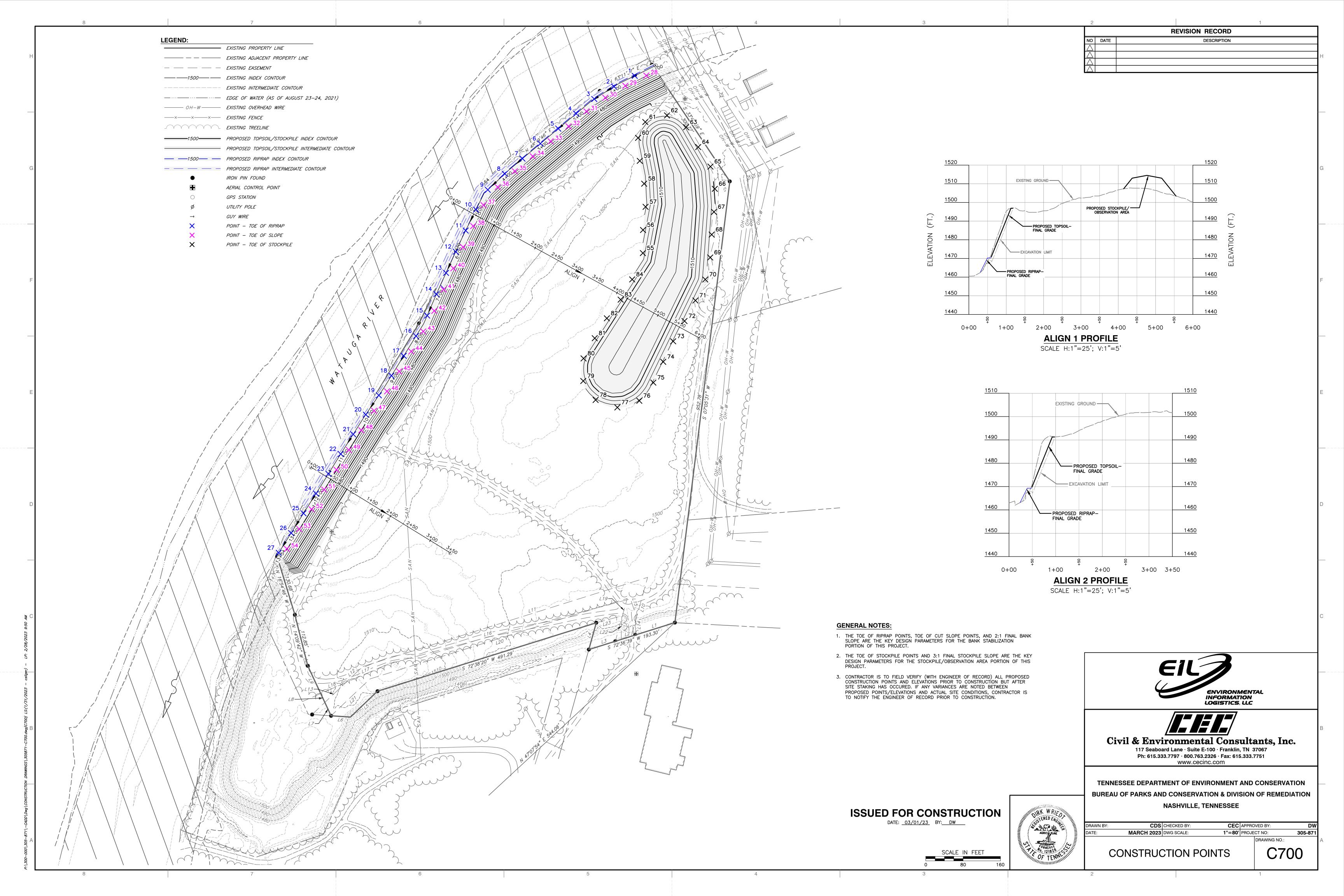
305-871

EROSION CONTROL MAT (TYP.)

ISSUED FOR CONSTRUCTION

DATE: <u>03/01/23</u> BY: <u>DW</u>

INTERED ENGINE



	REVISION RECORD							
NO	DATE	DESCRIPTION						
\triangle								

POINT	NORTHING	EASTING	DESCRIPTION	EXISTING GRADE ELEV.	EXCAVATION ELEV.	FINAL GRADE ELEV.
#	(ft)	(ft)		(ft +MSL)	(ft +MSL)	(ft +MSL)
1	755543.95	3072071.78	TOE OF RIPRAP	1469.05		1470.92
2	755520.91	3072027.46	TOE OF RIPRAP	1468.59		1470.86
3	755494.27	3071985.15	TOE OF RIPRAP	1468.76		1470.78
4	755462.81	3071946.34	TOE OF RIPRAP	1468.64		1470.71
5	755430.75	3071907.98	TOE OF RIPRAP	1469.26		1470.63
6	755398.68	3071869.61	TOE OF RIPRAP	1469.34		1470.56
7	755366.59	3071831.27	TOE OF RIPRAP	1469.45		1470.49
8	755333.95	3071793.41	TOE OF RIPRAP	1468.73		1470.41
9	755299.72	3071756.97	TOE OF RIPRAP	1468.28		1470.34
10	755257.21	3071731.71	TOE OF RIPRAP	1467.30		1470.26
11	755212.37	3071709.58	TOE OF RIPRAP	1469.28		1470.19
12	755167.12	3071688.31	TOE OF RIPRAP	1468.53		1470.12
13	755121.67	3071667.47	TOE OF RIPRAP	1468.81		1470.04
14	755076.11	3071646.89	TOE OF RIPRAP	1468.10		1469.97
15	755030.21	3071627.05	TOE OF RIPRAP	1467.52		1469.89
16	754986.42	3071603.19	TOE OF RIPRAP	1468.38		1469.82
17	754943.92	3071576.85	TOE OF RIPRAP	1468.21		1469.75
18	754901.42	3071550.51	TOE OF RIPRAP	1467.40		1469.67
19	754859.38	3071523.45	TOE OF RIPRAP	1467.47		1469.60
20	754817.96	3071495.45	TOE OF RIPRAP	1467.01		1469.52
21	754775.84	3071468.51	TOE OF RIPRAP	1467.54		1469.45
22	754733.58	3071441.79	TOE OF RIPRAP	1467.25		1469.38
23	754691.11	3071415.40	TOE OF RIPRAP	1467.23		1469.30
24	754648.77	3071388.81	TOE OF RIPRAP	1467.74		1469.23
25	754606.53	3071362.05	TOE OF RIPRAP	1469.11		1469.15
26	754564.17	3071335.49	TOE OF RIPRAP	1468.65		1469.08
27	754521.81	3071308.93	TOE OF RIPRAP	1467.41		1469.01

POINT	NORTHING	EASTING	DESCRIPTION	EXISTING GRADE ELEV.	EXCAVATION ELEV.	FINAL GRADE ELEV.
#	(ft)	(ft)		(ft +MSL)	(ft +MSL)	(ft +MSL)
28	755544.54	3072096.60	TOE OF CUT SLOPE	1471.89	1468.46	1471.46
29	755522.52	3072051.72	TOE OF CUT SLOPE	1472.05	1468.39	1471.39
30	755496.95	3072008.80	TOE OF CUT SLOPE	1470.81	1468.31	1471.32
31	755467.79	3071968.33	TOE OF CUT SLOPE	1470.99	1468.24	1471.24
32	755435.72	3071929.96	TOE OF CUT SLOPE	1471.44	1468.17	1471.17
33	755403.66	3071891.60	TOE OF CUT SLOPE	1471.34	1468.09	1471.09
34	755371.59	3071853.24	TOE OF CUT SLOPE	1473.59	1468.02	1471.02
35	755339.47	3071814.92	TOE OF CUT SLOPE	1473.86	1467.94	1470.94
36	755305.57	3071778.18	TOE OF CUT SLOPE	1470.45	1467.87	1470.87
37	755266.85	3071747.79	TOE OF CUT SLOPE	1470.15	1467.79	1470.79
38	755222.02	3071725.66	TOE OF CUT SLOPE	1473.90	1467.72	1470.72
39	755176.97	3071703.98	TOE OF CUT SLOPE	1471.59	1467.65	1470.65
40	755131.52	3071683.14	TOE OF CUT SLOPE	1469.49	1467.57	1470.57
41	755086.06	3071662.31	TOE OF CUT SLOPE	1470.19	1467.50	1470.50
42	755040.24	3071642.31	TOE OF CUT SLOPE	1468.55	1467.42	1470.42
43	754996.18	3071618.67	TOE OF CUT SLOPE	1469.24	1467.35	1470.35
44	754953.34	3071592.98	TOE OF CUT SLOPE	1470.35	1467.27	1470.27
45	754910.54	3071567.15	TOE OF CUT SLOPE	1469.37	1467.20	1470.20
46	754867.91	3071541.03	TOE OF CUT SLOPE	1468.86	1467.12	1470.13
47	754826.27	3071513.36	TOE OF CUT SLOPE	1469.80	1467.05	1470.05
48	754784.44	3071485.98	TOE OF CUT SLOPE	1469.39	1466.98	1469.98
49	754742.17	3071459.26	TOE OF CUT SLOPE	1470.22	1466.90	1469.90
50	754699.79	3071432.74	TOE OF CUT SLOPE	1470.18	1466.83	1469.83
51	754657.34	3071406.32	TOE OF CUT SLOPE	1471.10	1466.75	1469.75
52	754615.15	3071379.48	TOE OF CUT SLOPE	1473.78	1466.68	1469.68
53	754572.80	3071352.91	TOE OF CUT SLOPE	1474.39	1466.60	1469.61
54	754530.44	3071326.35	TOE OF CUT SLOPE	1471.93	1466.53	1469.53

POINT		EASTING	DESCRIPTION	EXISTING GRADE ELEV.	EXCAVATION ELEV.	FINAL GRADE ELEV
#	(ft)	(ft)		(ft +MSL)	(ft +MSL)	(ft +MSL)
55	755164.10	3072089.26	TOE OF STOCKPILE	1504.96		1504.96
56	755213.61	3072089.58	TOE OF STOCKPILE	1502.70		1502.70
57	755263.26	3072095.03	TOE OF STOCKPILE	1501.69		1501.69
58	755312.83	3072091.97	TOE OF STOCKPILE	1501.14		1501.14
59	755361.74	3072082.62	TOE OF STOCKPILE	1500.60		1500.60
60	755410.96	3072078.92	TOE OF STOCKPILE	1501.34		1501.34
61	755445.00	3072094.39	TOE OF STOCKPILE	1500.97		1500.97
62	755459.12	3072140.96	TOE OF STOCKPILE	1501.48		1501.48
63	755433.86	3072181.93	TOE OF STOCKPILE	1501.47		1501.47
64	755391.29	3072207.90	TOE OF STOCKPILE	1501.23		1501.23
65	755349.44	3072234.07	TOE OF STOCKPILE	1500.60		1500.60
66	755301.81	3072243.45	TOE OF STOCKPILE	1499.58		1499.58
67	755252.39	3072241.64	TOE OF STOCKPILE	1500.50		1500.50
68	755203.74	3072236.70	TOE OF STOCKPILE	1500.83		1500.83
69	755154.68	3072233.58	TOE OF STOCKPILE	1500.71		1500.71
70	755107.55	3072222.93	TOE OF STOCKPILE	1502.38		1502.38
71	755062.55	3072201.89	TOE OF STOCKPILE	1502.52		1502.52
72	755018.49	3072178.51	TOE OF STOCKPILE	1502.95		1502.95
73	754975.08	3072154.21	TOE OF STOCKPILE	1503.66		1503.66
74	754931.10	3072132.87	TOE OF STOCKPILE	1503.64		1503.64
75	754886.59	3072111.65	TOE OF STOCKPILE	1503.53		1503.53
76	754847.63	3072081.63	TOE OF STOCKPILE	1503.65		1503.65
77	754833.38	3072034.58	TOE OF STOCKPILE	1504.43		1504.43
78	754849.37	3071988.03	TOE OF STOCKPILE	1505.37		1505.37
79	754890.06	3071961.53	TOE OF STOCKPILE	1506.69		1506.69
80	754938.40	3071962.15	TOE OF STOCKPILE	1507.05		1507.05
81	754981.73	3071986.11	TOE OF STOCKPILE	1506.73		1506.73
82	755024.34	3072012.09	TOE OF STOCKPILE	1506.45		1506.45
83	755064.36	3072041.61	TOE OF STOCKPILE	1507.27		1507.27
84	755107.68	3072066.31	TOE OF STOCKPILE	1506.63		1506.63





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TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION BUREAU OF PARKS AND CONSERVATION & DIVISION OF REMEDIATION

NASHVILLE, TENNESSEE

CDS CHECKED BY:
MARCH 2023 DWG SCALE: CEC APPROVED BY:
1"=80' PROJECT NO:

POINT TABLE

C710

DRAWING NO.:

305-871

ISSUED FOR CONSTRUCTION

DATE: 03/01/23 BY: DW

AGRICULTURE

AGRIC